

## Purchase Order Receipt Listing

Thursday, July 20, 2017 2:43:19 PM

All Vendors PO ID PO36887 Receipt Dates from 7/20/2017 to 7/20/2017 All Line Item Types  
 All Item ID/GL/WOs All Rec. Employees All Currencies  
 Grouped by Vendor ID

Page 1 of 1

All amounts are calculated in domestic currency.

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Cert Std	PO U/M/ Stock U/M	Required Date	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID	Vendor Name	VU-MET002	A.M. Castle & Co. (Canada) Inc.- C/O 910720								
PO36887	1	M7075T6S1.000X2.5 f	DAS	5	7/24/2017	7/20/2017	12.0000 ✓	0.0000	0	\$0.00	
USD	No	7075-T6S Sheet 2.5"	f	9-89	12.0000	PLOU01		0.0000	0		
		Wide x 1" Thick Plate									
		m138086									
		M7075T6S1.500X1.5 f	DAS	5	7/24/2017	7/20/2017	12.0000 ✓	0.0000	0	\$0.00	
		7075-T6S Sheet 1.5"	f	9-89	12.0000	PLOU01		0.0000	0		
		Wide x 1.5" Thick									
		Plate									
		m138086									
		M7075T6S1.500X5.00 f	DAS	5	7/24/2017	7/20/2017	24.0000 ✓	0.0000	0	\$0.00	
		7075-T6 Sheet 5"	f	9-89	24.0000	PLOU01		0.0000	0		
		Wide x .375" Thick									
		Plate									
		m138086									
		M7075T6S1.000X5.0 f	DAS	5	7/24/2017	7/20/2017	12.0000 ✓	0.0000	0	\$0.00	
		7075-T6 Sheet 5"	f	9-89	12.0000	PLOU01		0.0000	0		
		Wide x 1" Thick Plate									
		m138086									
		M7075T73B3.000X4.000 f	DAS	5	7/24/2017	7/20/2017	8.0000 ✓	0.0000	0	\$0.00	
		7075-T73 Bar 3.0 x	f	9-89	8.0000	PLOU01		0.0000	0		
		4.0 grain direction									
		along 3"									
		m138086									

Total Received Quantity: 68,000  
 Total Qty to Inspect (PO U/M): 0,0000  
 Total Reject Quantity: 0,0000  
 Total Receipt Value: \$0,000  
 Total Balance Due Quantity: 0,0000

INTERORG TRANSFER  
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:3329949

<b>Ship From:</b> A. M. CASTLE & CO. 3050 S HYDRAULIC WICHITA, KS 67216 USA	<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON L5N 2K7 CAN	<b>Ship To:</b> A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
<b>Date Shipped</b> 13-JUL-17	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid	<b>Carrier</b> ABF
<b>Shipment Details</b>		<b>Final Destination Branch - TOR</b>	
<b>Order No</b> 4816985	<b>Line No</b> 2	<b>Item No</b> 750412.MO	<b>Description</b> 1.5000.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT LENGTH TO 1.5 IN (+ .1250/- .0000 IN) X 144.5 IN () ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12
<b>Purchase Order No</b> 36887	<b>Part Number</b>	<b>Ordered Qty</b> 1.00 PCS	<b>Invoice Qty</b> 1.00 PCS
<b>Details</b> ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS			
<b>Delivery No.</b> 121179012	<b>Mill</b>	<b>Heat Number</b>  DAS 5 8-89	<b>Mech Id</b> 1
			<b>Width (IN)</b>
			<b>Length (IN)</b>
			<b>Shipped Qty(LBS)</b> 33.5163

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

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Date Printed: 13-JUL-2017 01:33:20 PM

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CERTIFICATE OF CONFORMANCE

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

*Amerson Physics*  
  
L-40 RS

Reviewed by Authorized Castle Metals Representative:  Date:  Name:

*SJF-JD*

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**CERTIFIED TEST REPORT**  
Constellium Rolled Products  
Ravenswood, LLC

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A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS  
67216  
US

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A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523  
US

A M CASTLE 110539777 4075 INCLUSION Serial:20170527-0110539777 Pg 1 of 2

CUSTOMER PURCHASE ORDER NO. & ITEM 420827						Constellium ORDER NO. 204516	CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products, Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA	
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.50000 in 38.10 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm			
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH								
CUSTOMER SPECIFICATION AMS QQ-A-250/12A								
PART NUMBER 750412	B/L NUMBER 81405		DATE SHIPPED 05/29/2017					
WT. SHIPPED 4200.000 LB	NO. OF PIECES 000004	GOVT. CONTRACT NO.						

Steve Good - Laboratory Manager

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125" DEADZONE Class A  
AMS 4045K  
AMS-STD-2154A-2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE  
ASTM B209-14  
BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE  
CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE  
DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE  
GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE  
PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

DAS

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9-89  
ace  
9388495  
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9388495  
02  
9388495  
03  
9388495  
04

Load Details

Package	Net Lbs	Kg	Lot	9-89 ace	Serial	Parent Lot
1001522467	1,050.000	476.272	9388495	01		
1001522467	1,050.000	476.272	9388495	02		
1001522467	1,050.000	476.272	9388495	03		
1001522467	1,050.000	476.272	9388495	04		

Lot: 9388495

Tensile - Room Temperature (US)

Direction	Tests	Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
		Min	Max	Min	Max	Min	Max	
LT	02	80.7	81.3	69.8	71.4	12.0	12.0	





**CERTIFIED TEST REPORT**  
Constellium Rolled Products  
Ravenswood, LLC

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A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS  
67216  
US

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A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523  
US

A M CASTLE 110539777 4075 INCLUSION Serial:20170527-0110539777 Pg 2 of 2

CUSTOMER PURCHASE ORDER NO. & ITEM 420827						Constellium ORDER NO. 204516	CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA	
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.50000 in 38.10 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm			
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH								
CUSTOMER SPECIFICATION AMS QQ-A-250/12A								
PART NUMBER 750412	B/L NUMBER 81405		DATE SHIPPED 05/29/2017					
WT. SHIPPED 4200.000 LB	NO. OF PIECES 000004	GOVT. CONTRACT NO.						Steve Good - Laboratory Manager

## Tensile - Room Temperature (SI)

Direction	Tests	Ultimate (N/MM2)		Yield (N/MM2)		Elongation (%)		Report
		Min	Max	Min	Max	Min	Max	
LT	02	556	561	481	492	12.0	12.0	

## Chemistry (Actual)

	SI	FE	CU	MN	MG	CR	ZN	TI	ZR
Core	0.08	0.18	1.41	0.04	2.63	0.21	5.50	0.03	0.00

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

QUALITY TEXTS:  
AMC CA-15403A R 7

THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CHEMISTRY BY OES: ARKSPARK

CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT  
WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399

WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557

DUNS Number: 090570149; CAGE Code: 1YWL9

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.  
"END OF CERTIFICATION"



INTERORG TRANSFER  
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:3329949

Ship From:		Sold To:		Ship To:		Deliver To:	
A. M. CASTLE & CO. 3050 S HYDRAULIC WICHITA, KS 67216 USA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON CA		A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped	F.O.B.	Freight Terms		Carrier	BOL No		
13-JUL-17	ORIGIN	Prepaid	ABF		3329949-2		
Shipment Details		Final Destination Branch - TOR					
Order No	Line No	Item No	Description	Ordered Qty	Invoice Qty		
4816985	1	752188.MO	1.0000.PL7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT LENGTH TO 2.5 IN (+ .1250/- .0000 IN) X 144.5 IN () ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12	1.00 PCS	1.00 PCS		
Purchase Order No 36887	Part Number						
<i>Details</i>		ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS					
Delivery No.	Mill	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
121179012		DAS 5 9 3 8 7 9 9 1 0-89	1				37.6174

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INTERORG TRANSFER  
PACKING SLIP/  
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Page 2 of 2

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Reviewed by Authorized Castle Metals Representative:



Name: *Anthon Hayes*

Date: *13-JUL-2017*

*8017-7-20*

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**CERTIFIED TEST REPORT**  
Constellium Rolled Products  
Ravenswood, LLC

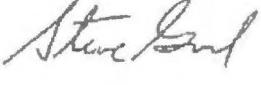
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A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523  
US

A M CASTLE 110539772 4075 INCLUSION Serial:20170527-0110539772 Pg 1 of 4

CUSTOMER PURCHASE ORDER NO. & ITEM 419757				Constellium ORDER NO. 203735		<b>CERTIFICATION</b> "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA   Steve Good - Laboratory Manager	
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.00000 in 25.40 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm		
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH							
CUSTOMER SPECIFICATION AMS 4045K							
PART NUMBER 752188	B/L NUMBER 81388		DATE SHIPPED 05/29/2017				
WT. SHIPPED 5770.000 LB	NO. OF PIECES 000008	GOVT. CONTRACT NO.					

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125" DEADZONE Class A  
 AMS QQ-A-250/12A  
 AMS STD-Q154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE  
 ASTM B209-T4  
 BSS 7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE  
 CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE  
 DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE  
 GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE  
 PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	DAS	5	Piece	Serial	Parent Lot
1001522455	725.000	328.854	9387991	0-89		01		
1001522455	725.000	328.854	9387991			02		
1001522455	725.000	328.854	9387991			03		
1001522460	725.000	328.854	9387992			01		
1001522460	725.000	328.854	9387992			02		
1001522460	725.000	328.854	9387992			03		
1001522466	710.000	322.050	9387993			01		
1001522466	710.000	322.050	9387993			02		

Lot: 9387991

Tensile - Room Temperature (US)

Direction	Tests	Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
		Min	Max	Min	Max	Min	Max	
LT	02	79.8	80.5	70.1	72.3	13.0	13.0	





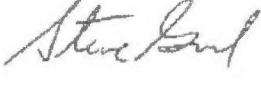
**CERTIFIED TEST REPORT**  
Constellium Rolled Products  
Ravenswood, LLC

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A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS  
67216  
US

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A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523  
US

A M CASTLE		110539772	4075	INCLUSION	Serial:20170527-0110539772	Pg 2 of 4																									
CUSTOMER PURCHASE ORDER NO. & ITEM 419757				Constellium ORDER NO. 203735																											
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.00000 in 25.40 mm	WIDTH 48.50000 in 1.232 mm	LENGTH 144.50000 in 3,670 mm																										
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH																															
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PART NUMBER 752188		B/L NUMBER 81388		DATE SHIPPED 05/29/2017																											
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<b>Chemistry (Actual)</b> <table border="1"> <thead> <tr> <th></th> <th>Si</th> <th>Fe</th> <th>Cu</th> <th>Mn</th> <th>Mg</th> <th>Cr</th> <th>Zn</th> <th>Ti</th> <th>Zr</th> </tr> </thead> <tbody> <tr> <td>Core</td> <td>0.05</td> <td>0.16</td> <td>1.38</td> <td>0.03</td> <td>2.48</td> <td>0.20</td> <td>5.45</td> <td>0.04</td> <td>0.01</td> </tr> </tbody> </table>									Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Zr	Core	0.05	0.16	1.38	0.03	2.48	0.20	5.45	0.04	0.01				
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Zr																						
Core	0.05	0.16	1.38	0.03	2.48	0.20	5.45	0.04	0.01																						
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Ultimate (KSI)			Yield (KSI)		Elongation (%)		Report																								
Direction	Tests	Min	Max	Min	Max	Min	Max																								
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**CERTIFIED TEST REPORT**  
Constellium Rolled Products  
Ravenswood, LLC

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3050 SO HYDRAULIC  
WICHITA KS  
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A M CASTLE

1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
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US

A M CASTLE 110539772 4075 INCLUSION Serial:20170527-0110539772 Pg 3 of 4

CUSTOMER PURCHASE ORDER NO. & ITEM 419757				Constellium ORDER NO. 203735		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA			
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.00000 in 25.40 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm				
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH									
CUSTOMER SPECIFICATION AMS 4045K									
PART NUMBER 752188		B/L NUMBER 81388		DATE SHIPPED 05/29/2017					
WT. SHIPPED 5770.000 LB	NO. OF PIECES 000008		GOVT. CONTRACT NO.						

Steve Good - Laboratory Manager

## Tensile - Room Temperature (SI)

Direction	Tests	Ultimate (N/MM2)		Yield (N/MM2)		Elongation (%)		Report
		Min	Max	Min	Max	Min	Max	
LT	02	554	556	493	496	12.5	13.5	

## Chemistry (Actual)

	SI	FE	CU	MN	MG	CR	ZN	TI	ZR
Core	0.05	0.16	1.38	0.03	2.48	0.20	5.45	0.04	0.01

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

Lot: 9387993

## Tensile - Room Temperature (US)

Direction	Tests	Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
		Min	Max	Min	Max	Min	Max	
LT	02	79.9	80.8	70.4	71.5	13.0	13.5	





**CERTIFIED TEST REPORT**  
Constellium Rolled Products  
Ravenswood, LLC

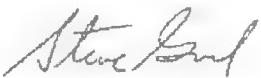
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A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS  
67216  
US

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A M CASTLE

1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523  
US

A M CASTLE		110539772	4075	INCLUSION	Serial: 20170527-0110539772	Pg 4 of 4																									
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QUALITY TEXTS: AMC CA-15403 R 8																															
THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. CHEMISTRY BY OES: ARKSPARK CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399 WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8: B557 DUNS Number: 090570149; CAGE Code: 1YWL9 Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product. "END OF CERTIFICATION"																															



INTERORG TRANSFER  
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Ship From:		Sold To:		Ship To:		Deliver To:	
A. M. CASTLE & CO. 14001 ORANGE AVENUE PARAMOUNT, CA 90723 USA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		A. M. CASTLE & CO. 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		
Shipment Details		Freight Terms		Carrier		BOL No	
Date Shipped 07-JUL-17	F.O.B. ORIGIN	Prepaid	UPS			3325226-2	
Final Destination Branch							
Order No	Line No	Item No	Description	Invoice Qty			
4816985	6	752132.MO	4.0000.PL.7075.1733T.ALUMINUM.USI.48.5000.144.5000 CUT LENGTH TO 48.5 IN ((GRAIN TO RUN ALONG 3")) X 3 IN (+ 1250/- .0000 IN (GRAIN TO RUN ALONG 3")) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12	2.00 PCS	2.00 PCS		
Purchase Order No	Part Number	Ordered Qty					
36887							
<b>Details</b>	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS						
Delivery No.	Mill	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
121167276			DAS 5 0.39	2			120.6208

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

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Date Printed: 07-JUL-2017 04:08:29 PM

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PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut to the correct size, or material cut to the correct size, or material cut to the correct size.

Reviewed by Authorized Castle Metals Representative:

Reviewed by Authorized Castle Metals Representative:	Date:	Name:
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Date:

Name:



SO M-J-20

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.  
Date Printed: 07-JUL-2017 04:08:29 PM

A.M. Castle &amp; Co.

**Vendor (Name and Address)**  
A.M. Castle & Co. - LOS ANGELES - CASTLE METALS  
A. M. Castle & Co.  
14001 ORANGE AVENUE  
PARAMOUNT, CA 90723

## INTRA-COMPANY TRANSFER PROFORMA INVOICE

<p><b>Vendor (Name and Address)</b>  A.M. Castle &amp; Co. - LOS ANGELES - CASTLE METALS  A. M. Castle &amp; Co.  14001 ORANGE AVENUE  PARAMOUNT, CA 90723</p> <p>Tax Registration Number: 36-0879160</p> <p><b>Consignee (Name and Address)</b>  A.M. Castle &amp; Co. - TORONTO - CASTLE METALS  A. M. Castle &amp; Co. (Canada) Inc.  2150 ARGENTIA ROAD  MISSISSAUGA, ON L5N 2K7</p> <p>Tax Registration Number: 13835 3438 RC0001</p> <p>Transportation UPS</p> <p>INCO Term: DDP - MISSISSAUGA, ON, L5N 2K7, CAN</p>	<p>Date of Direct Shipment 12-JUL-17</p> <p>Other References (Include Bill of Lading No.) 3325226-2</p> <p>Place PRO Number Here</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Purchaser (Name and Address)</b>  A.M. Castle &amp; Co. - TORONTO - CASTLE METALS  A. M. Castle &amp; Co. (Canada) Inc.  2150 ARGENTIA ROAD  MISSISSAUGA, ON L5N 2K7</td> <td style="width: 50%;"><b>Tax Registration Number:</b> 13835 3438 RC0001  <b>Conditions of Sale and Terms of Payment</b> 1% 10, NET 30</td> </tr> <tr> <td colspan="2"><b>Currency of Settlement</b> USD</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Item</th> <th colspan="4">Specs of Commodities</th> <th style="width: 15%;">Tariff Code</th> <th style="width: 15%;">Export License</th> <th style="width: 15%;">ECCN</th> <th style="width: 15%;">ITAR</th> </tr> <tr> <th></th> <th>Order-Line-Ship</th> <th># Pkgs.</th> <th>Weight</th> <th>Heat</th> <th>Country of Origin</th> <th>Units</th> <th>UOM</th> <th>Total Price</th> </tr> </thead> <tbody> <tr> <td>752132.MO</td> <td>4.0000.PL.7075.T7351.ALUM/INUM.USI:48.5000.144.5000</td> <td>1</td> <td>120.62 LBS</td> <td>229504B6</td> <td>7606123030</td> <td>NLR</td> <td>EAR99</td> <td>N/A</td> </tr> <tr> <td></td> <td>4816985-6-1</td> <td></td> <td></td> <td></td> <td>US</td> <td>2.00</td> <td>PCS</td> <td>\$305.22</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="width: 20%;">Invoice Package Total</th> <th style="width: 20%;">Total Weights</th> <th style="width: 20%;">Gross</th> <th style="width: 20%;">Invoice Total</th> </tr> <tr> <th></th> <th>Net</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>120.62</td> <td>142.62</td> <td></td> <td>\$305.22</td> </tr> </tbody> </table>	<b>Purchaser (Name and Address)</b> A.M. Castle & Co. - TORONTO - CASTLE METALS A. M. Castle & Co. (Canada) Inc. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7	<b>Tax Registration Number:</b> 13835 3438 RC0001  <b>Conditions of Sale and Terms of Payment</b> 1% 10, NET 30	<b>Currency of Settlement</b> USD		Item	Specs of Commodities				Tariff Code	Export License	ECCN	ITAR		Order-Line-Ship	# Pkgs.	Weight	Heat	Country of Origin	Units	UOM	Total Price	752132.MO	4.0000.PL.7075.T7351.ALUM/INUM.USI:48.5000.144.5000	1	120.62 LBS	229504B6	7606123030	NLR	EAR99	N/A		4816985-6-1				US	2.00	PCS	\$305.22	Invoice Package Total		Total Weights	Gross	Invoice Total		Net				1	120.62	142.62		\$305.22
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					<p>Originator (Name and Address) A.M. Castle &amp; Co. - Los Angeles 14001 ORANGE AVENUE 050372560 PARAMOUNT, CA 90723UNITED STATES</p> <p>Signature: </p>																																																			

\* Price per UOM and Total Price have been adjusted to include Processing and Handling Charges if applicable.

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**SHIP TO:**  
**A M CASTLE & CO**  
**14001 ORANGE AVE**  
**P.O. BOX 1402**  
**PARAMOUNT, CA 90723**

**KAISER**  
**ALUMINUM**

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

**SOLD TO:**  
**AM CASTLE & CO- SOLD TO**  
**1420 KENSINGTON RD**  
**SUITE 220**  
**OAK BROOK, IL 60523**

## CERTIFIED TEST REPORT

**Serial Number**  
4466591

CUSTOMER PO NUMBER: 424640-1	WORK PACKAGE:	CUSTOMER PART NUMBER: 752132	SHIP RUN/LOAD: 103951/20	GOVT CONTRACT NUMBER:
KAISER ORDER NO: 1237311-1	SHIP DATE: 13-JUN-2017	ALLOY: 7075	CLAD: BARE	TEMPER: T7351
WEIGHT SHIPPED: 5686 LB	QUANTITY: 2 PCS EST.	TRUCK BL #: 2067360	GAUGE: 4.0000 IN (101.6000 MM)	DIAMETER/WIDTH: 48.500 IN (1231.9 MM)

MHU 2117771: LOT 799486A6: 1 pieces;

MHU 2122630: LOT 229504B6: 1 pieces;

### Certified Specifications

AMS 4078/RevJ  
ASTM B 209/Rev14  
BSS 7055/RevB  
DPS 4.713/RevAK  
MMS 159/RevT

AMS-QQ-A-250/12/RevA  
ASTM B 594/Rev13  
CMMP 025/RevV  
GAMPS 9101/RevB/AmdSCN1  
PS 21211/RevP

AMS-STD-2154/RevA  
BAC 5439/RevJ  
CSTI 006/RevE  
GSS16100/RevG/Amd1

DAS Test Code: 4297

5 Lot: 229504B6 Cast 472  
9-89

### Test Results

Melted In USA

(ASTM E8/B557)  
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	62.9 : 63.9 (434 : 441)	49.6 : 50.6 (342 : 349)	10.6 : 10.7

(ASTM E1004)		
(EN 2004-1)		
Conductivity % IACS :	41.3 Min	41.3 Max
(MS/M) :	24.0 Min	24.0 Max

(ASTM E1251)

Chemistry:	Si	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.07	0.15	1.5	0.03	2.4	0.20	5.5	0.03	0.01	0.02	TOT 0.05





Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4466591

Lot: 799486A6 Cast 407 Drop 62 Ingot 5 Parent Lot: 217423B3 Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	61.7 : 63.9 (425 : 441)	48.4 : 50.8 (334 : 350)	10.9 : 11.1

(ASTM E1004)

(EN 2004-1)

Conductivity % IACS :	42.2 Min	42.6 Max
(MS/M) :	24.5 Min	24.7 Max

(ASTM E1251)

Chemistry:	Si	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.07	0.17	1.5	0.02	2.5	0.21	6.0	0.03	0.01	0.02	TOT 0.06

### ALLOY LIMITS

	Si	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

### Aluminum Remainder

### ORDER COMMENTS

AMC CA-15413E R 6

### TEST NOTES

Metal represented by this test report was 100% Type I immersion ultrasonically tested from one side with 3mm dead zones top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is performed.

### CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance with applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1216 (<1ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- is free of weld repair.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

INTERORG TRANSFER  
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:3329949

<b>Ship From:</b> A. M. CASTLE & CO. 3050 S HYDRAULIC WICHITA, KS 67216 USA	<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON L5N 2K7 CAN	<b>Ship To:</b> A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
<b>Date Shipped</b> 13-JUL-17	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid	<b>Carrier</b> ABF
<b>Shipment Details</b>			
<b>Final Destination Branch - TOR</b>			
<b>Order No</b> 4816985	<b>Line No</b> 4	<b>Item No</b> 752188.MO	<b>Description</b> 1.0000.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT LENGTH TO 5 IN (+ .1250/- .0000 IN) X 144.5 IN () - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12
<b>Purchase Order No</b> 36887	<b>Part Number</b>	<b>Ordered Qty</b> 1.00 PCS	<b>Invoice Qty</b> 1.00 PCS
<b>Details</b> ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS			
<b>Delivery No.</b> 121179012	<b>Mill</b>	<b>Heat Number</b> 	<b>Mech Id</b> DAS 5 9-89
		<b>PCS</b> 1	<b>Width (IN)</b>
			<b>Length (IN)</b>
			<b>Shipped Qty(LBS)</b> 75.2348

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

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Date Printed: 13-JUL-2017 01:33:20 PM

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CERTIFICATE OF CONFORMANCE

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description for credit test reports are on file subject to examination All claims for defective material are waived unless made in writing to A M Casile & Co within 60 days of the shipment Material cut to the correct size, or material cut by the customer cannot be returned for credit

Reviewed by Authorized Castle Metals Representative

*Amerson R. Hayes*  


Name:

Date:

*6017-7-20*

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of to any other country or to any other person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.  
Date Printed: 13-JUL-2017 01:33:20 PM



**CERTIFIED TEST REPORT**  
Constellium Rolled Products  
Ravenswood, LLC

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A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS  
67216  
US

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A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523  
US

A M CASTLE 110539772 4075 INCLUSION Serial:20170527-0110539772 Pg 1 of 4

CUSTOMER PURCHASE ORDER NO. & ITEM 419757				Constellium ORDER NO. 203735	
--	--	--	--	---------------------------------	--

ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.00000 in 25.40 mm	WIDTH 18.50000 in. 473 mm	LENGTH 144.50000 3,670 mm
---------------	------	----------------	---------------------------------	---------------------------------	---------------------------------

ITEM ORDERED  
SPEC PLATE, SAWED  
MILL FINISH

CUSTOMER SPECIFICATION  
AMS 4045K

PART NUMBER 752188	B/L NUMBER 81388	DATE SHIPPED 05/29/2017
-----------------------	---------------------	----------------------------

WT. SHIPPED 5770.000 LB	NO. OF PIECES 000008	GOVT. CONTRACT NO.
----------------------------	-------------------------	--------------------

**CERTIFICATION**  
"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC  
859 Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA

Steve Good - Laboratory Manager

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125" DEADZONE Class A  
AMS QQ-A-250/12A

AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE

ASTM B209-14

BSS-7055B-2013 CLASS A 100% SONIC TESTED MINUS DEADZONE

CSTI005 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE

DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE

GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE

PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	5	Piece	Serial	Parent Lot
1001522455	725.000	328.854	9387991	9-89			
1001522455	725.000	328.854	9387991		02		
1001522455	725.000	328.854	9387991		03		
1001522460	725.000	328.854	9387992		01		
1001522460	725.000	328.854	9387992		02		
1001522460	725.000	328.854	9387992		03		
1001522466	710.000	322.050	9387993		01		
1001522466	710.000	322.050	9387993		02		

Lot: 9387991

Tensile - Room Temperature (US)

Direction	Test#	Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
		Min	Max	Min	Max	Min	Max	
LT	02	79.8	80.5	70.1	72.3	13.0	13.0	





**CERTIFIED TEST REPORT**  
Constellium Rolled Products  
Ravenswood, LLC

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A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS  
67216  
US

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A M CASTLE

1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523  
US

A M CASTLE		110539772	4075	INCLUSION	Serial:20170527-0110539772	Pg 2 of 4					
CUSTOMER PURCHASE ORDER NO. & ITEM 419757			Constellium ORDER NO. 203735		<b>CERTIFICATION</b> "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA						
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.00000 in 25.40 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm						
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH											
CUSTOMER SPECIFICATION AMS 4045K											
PART NUMBER 752188		B/L NUMBER 81388		DATE SHIPPED 05/29/2017							
WT. SHIPPED 5770 000 LB		NO. OF PIECES 000008		GOVT. CONTRACT NO.							
<i>Steve Good</i> Steve Good - Laboratory Manager											
<b>Tensile - Room Temperature (SI)</b>											
		Ultimate (N/MM <sup>2</sup> )		Yield (N/MM <sup>2</sup> )		Elongation (%)					
Direction	Tests	Min	Max	Min	Max	Min					
LT	02	550	555	483	498	13.0					
<b>Chemistry (Actual)</b>											
		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Zr	
Core		0.05	0.16	1.38	0.03	2.48	0.20	5.45	0.04	0.01	
<b>OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER</b>											
All material contained in this lot was cast and manufactured in the USA											
<b>Lot: 9387992</b>											
<b>Tensile - Room Temperature (US)</b>											
		Ultimate (KSI)		Yield (KSI)		Elongation (%)					
Direction	Tests	Min	Max	Min	Max	Min					
LT	02	80.3	80.6	71.5	72.0	12.5					



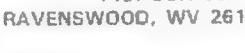
**CERTIFIED TEST REPORT**  
Constellium Rolled Products  
Ravenswood, LLC

**A M CASTLE CO**  
3050 SO HYDRAULIC  
WICHITAKS  
67216  
US

SALDO

A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523  
US

AM CASTLE 110539772 4075 INCLUSION Serial:20170527-0110539772 Pg 3 of 4

CUSTOMER PURCHASE ORDER NO. & ITEM 419757				Constellium ORDER NO. 203735	
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.00000 in 25.40 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH					
CUSTOMER SPECIFICATION AMS 4045K					
PART NUMBER 752188		B/L NUMBER 81388		DATE SHIPPED 05/29/2017	
WT. SHIPPED 5770.000 LB		NO. OF PIECES 000008		GOVT. CONTRACT NO.	
<p style="text-align: right;"><b>CERTIFICATION</b></p> <p>"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."</p> <p>Constellium Rolled Products Ravenswood, LLC        859 Century Road        P.O. BOX 68        RAVENSWOOD, WV 26164 USA</p>  <p>Steve Good - Laboratory Manager</p>					

Steve Good - Laboratory Manager

Tensile - Room Temperature (SI)				Yield (N/MM2)		Elongation (%)		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	554	556	493	496	12.5	13.5	

## **Chemistry (Actual)**

	SI	FE	CU	MN	MG	CR	ZN	TI	ZR
Core	0.05	0.16	1.38	0.03	2.48	0.20	5.45	0.04	0.01

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

**All material contained in this lot was cast and manufactured in the USA**

Lot: 9387993

#### Tensile - Room Temperature (US)

		Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report	
Direction	Tests	Min	Max	Min	Max	Min	Max		
LT	02	79.9	80.8	70.4	71.5	13.0	13.5		

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**CERTIFIED TEST REPORT**  
Constellium Rolled Products  
Ravenswood, LLC

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A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS  
67216  
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A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523  
US

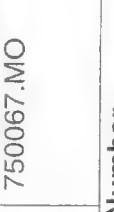
A M CASTLE	110539772	4075	INCLUSION	Serial: 20170527-0110539772	Pg 4 of 4																											
CUSTOMER PURCHASE ORDER NO. & ITEM 419757				Constellium ORDER NO. 203735																												
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.00000 in 25.40 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm																											
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH																																
CUSTOMER SPECIFICATION AMS 4045K																																
PART NUMBER 752188		B/L NUMBER 81388		DATE SHIPPED 05/29/2017																												
WT. SHIPPED 5770.000 LB	NO. OF PIECES 000008	GOVT. CONTRACT NO.																														
<b>Tensile - Room Temperature (SI)</b> <table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="2">Ultimate (N/MM<sup>2</sup>)</th> <th colspan="2">Yield (N/MM<sup>2</sup>)</th> <th colspan="2">Elongation (%)</th> <th>Report</th> </tr> <tr> <th>Direction</th> <th>Tests</th> <th>Min</th> <th>Max</th> <th>Min</th> <th>Max</th> <th>Min</th> <th>Max</th> <th></th> </tr> </thead> <tbody> <tr> <td>LT</td> <td>02</td> <td>551</td> <td>557</td> <td>485</td> <td>493</td> <td>13.0</td> <td>13.5</td> <td></td> </tr> </tbody> </table>								Ultimate (N/MM <sup>2</sup> )		Yield (N/MM <sup>2</sup> )		Elongation (%)		Report	Direction	Tests	Min	Max	Min	Max	Min	Max		LT	02	551	557	485	493	13.0	13.5	
		Ultimate (N/MM <sup>2</sup> )		Yield (N/MM <sup>2</sup> )		Elongation (%)		Report																								
Direction	Tests	Min	Max	Min	Max	Min	Max																									
LT	02	551	557	485	493	13.0	13.5																									
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	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Zr																							
Core	0.05	0.16	1.38	0.03	2.48	0.20	5.45	0.04	0.01																							
All material contained in this lot was cast and manufactured in the USA																																
QUALITY TEXTS: AMC CA-15403 R 8																																
THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.																																
CHEMISTRY BY OES: ARKSPARK CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399 WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8: B557 DUNS Number: 090570149; CAGE Code: 1YWL9																																
Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product. "END OF CERTIFICATION"																																



INTERORG TRANSFER  
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:3329949

<b>Ship From:</b> A. M. CASTLE & CO. 3050 S HYDRAULIC WICHITA, KS 67216 USA	<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON CA	<b>Ship To:</b> A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
<b>Date Shipped</b> 13-JUL-17	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid	<b>Carrier</b> ABF
<b>Shipment Details</b>			
<b>Final Destination Branch - TOR</b>			
<b>Order No</b> 4816985	<b>Line No</b> 3	<b>Item No</b> 750067.MO	<b>Description</b> 0.3750.PL.7075.T651.ALUMINUM.48.5000.144.5000 CUT LENGTH TO 5 IN (+ .1250/- .0000 IN) X 144.5 IN () - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12
<b>Purchase Order No</b> 36887	<b>Part Number</b>		<b>Ordered Qty</b> 2.00 PCS
<b>Details</b>			
ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS			
<b>Delivery No.</b> 121179012	<b>Heat Number</b>	<b>Mech Id</b> 2	<b>PCS</b>
		DAS 5 989	<b>Width (IN)</b>
			<b>Length (IN)</b>
			<b>Shipped Qty(LBS)</b> 56.7726

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

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Date Printed: 13-JUL-2017 01:33:20 PM

INTERORG TRANSFER  
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Gossle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.		
Reviewed by Authorized Castle Metals Representative:	Date:	Name:
 <i>Ari Gossle</i>	 <i>Castles Metals Inc.</i>	 <i>Castles Metals Inc.</i>

*SOMMER*

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.  
Date Printed: 13-JUL-2017 01:33:20 PM

SHIP TO:  
A M CASTLE & CO  
3050 SOUTH HYDRAULIC  
WICHITA, KS 67216

SOLD TO:  
AM CASTLE & CO - SOLD TO  
1420 KENSINGTON RD  
SUITE 220  
OAK BROOK, IL 60523

**KAISER**  
**ALUMINUM**

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4431950

CUSTOMER PO NUMBER:	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP RUN/LOAD:	GOV'T CONTRACT NUMBER:	
385598-1		750067	103675/8		
KAIser ORDER NO.:	SHIP DATE:	ALLOY:	CLAD:	TEMPER:	PRODUCT DESCRIPTION
1215472-1	5-SEP-2016	7075	BARE	T651	Sawed Plate
WEIGHT SHIPPED:	QUANTITY:	TRUCK B/L #:	GAUGE:	DIAmETER/WIDTH:	LENGTH:
3332 LB	12 PCS EST.	2062279	0.3750 IN (9.5250 MM)	48.500 IN (1231.9 MM)	144.500 IN (3670.3 MM)

MHU 2026201: LOT 178168B1; 12 pieces;

### Certified Specifications

AMS 4045/RevL  
CMMP 025/RevV

AMS-QQ-A-250/12/RevA

ASTM B 209/Rev14

Test Code: 1512  
Lot: 178168B1 Cast 211 Drop 65 Test Results Ingot 1 Melted in USA

(ASTM E8/B557)  
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T651	LT / 2 (Min:Max)	85.1 : 85.6 (587 : 590)	75.6 : 76.2 (521 : 525)	12.8 : 13.6

(ASTM E1251)

Chemistry:	Si	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.17	1.5	0.03	2.5	0.19	5.7	0.03	0.01	0.01	TOT 0.05

### ALLOY LIMITS

	Si	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

ORDER COMMENTS  
AMC CA-15409 R 3



Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4431950

### CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material, shipped under this order:

- has been inspected, tested and found to be in conformance with the requirements of the specification and other criteria.
- All test equipment and measuring devices are calibrated and certified in accordance with applicable specifications. For material thicknesses outside specification limits, thickness measurements, values are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARs 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARs 225.872-1(c) for domestic class.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1215 (< 1 ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulation (EC) No 1907/2006 and its implementing regulations, including Annex XVII of the REACH regulation.
- is free of Conflict Minerals as defined in Section 152 of the Dodd-Frank Act.
- is free of lead paint.
- meets the reporting requirements of EN10204-3, Part 3.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Limitations apply to claims of loss, damage, or expense. To file a claim, it must be submitted in writing to the written approval of the Kaiser Aluminum laboratory. The following of failure to file a claim and submit a sample to the laboratory will void the warranty.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

# PURCHASE ORDER

Purchase Order ID PO36887

Purchase Order Date 6/29/2017

PO Print Date 6/29/2017

Page Number 1 of 5

**Order From :**

METAUX CASTLE  
P.O. BOX 4090 STN A  
TORONTO, ONTARIO M5W 0E9  
CANADA

VU-MET002

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

JUN 29 2017

Contact Name  
Vendor Phone

Buyer Chantal Lavoie

Ship To Contact

Customer POID

Ship To Phone

Customer Tax #

Ship Via: Yours ppd

Terms Net 30

Ship Acct:

Currency USD

FOB Destination-Collect

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M7075T6S1.000X2.500	7075-T6S Sheet 2.5" Wide x 1" Thick Plate	7/24/2017 Yes	FN	12.00 f	\$30.42	\$365.04

MAT'L 7075-T6/T62 ALUMINUM SHEET  
SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET  
SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

2	M7075T6S1.500X1.500	7075-T6S Sheet 1.5" Wide x 1.5" Thick Plate	7/24/2017 Yes	FN	12.00 f	Line Total: \$21.06	\$252.72
---	---------------------	---	---------------	----	---------	---------------------	----------

MAT'L 7075-T6/T62 ALUMINUM SHEET  
SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET  
SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

SPT-720

Note:



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO36887**

Purchase Order Date 6/29/2017

PO Print Date 6/29/2017

Page Number 2 of 5

Order From : VU-MET002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

METAUX'CASTLE  
P.O. BOX 4090 STN A  
TORONTO, ONTARIO M5W 0E9  
CANADA

Contact Name

Buyer Chantal Lavoie

Vendor Phone

Customer POID

Ship To Contact

Customer Tax # 10127-2607

Ship To Phone

Terms Net 30

Ship Via: Yours ppd

Currency USD

Ship Acct:

FOB Destination-Collect

					Line Total:	
3	M7075T6S.375X5.000	7075-T6 Sheet 5" Wide x 375" Thick Plate	7/24/2017 FN	24.00	\$18.10	\$434.40

MAT'L 7075-T6/T62 ALUMINUM SHEET  
SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET  
SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

					Line Total:	
4	M7075T6S1.000X5.000	7075-T6 Sheet 5" Wide x 1" Thick Plate	7/24/2017 FN	12.00	\$21.75	\$261.00

MAT'L 7075-T6/T62 ALUMINUM SHEET  
SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET  
SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

SPT-7-20

Line Total:

\$261.00

Note:



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

# PURCHASE ORDER

Purchase Order ID PO36887

Purchase Order Date 6/29/2017  
PO Print Date 6/29/2017

Page Number 3 of 5

**Order From :**  
METAUX CASTLE  
P.O. BOX 4090 STN A  
TORONTO, ONTARIO M5W 0E9  
CANADA

VU-MET002

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

Buyer Chantal Lavoie

**Vendor Phone**

Customer POID

**Ship To Contact**

Customer Tax # 10127-2607

**Ship To Phone**

Terms Net 30

**Ship Via:** Yours ppd

Currency USD

**Ship Acct:**

FOB Destination-Collect

5	M7075T73B3.000X4.000	✓ 7075-T73 Bar 3.0 x 4.0 ✓ grain direction along 3"	7/24/2017	8.00 ✓	\$101.00	\$808.00
			Yes	f		
			7/24/2017			

MATERIAL: 7075-T73/T7351/T73510/T73511 BAR AS PER AMS-QQ-A-200/11 OR AMS-QQ-A-225/9 OR AMS 4124 OR AMS-QQ-A-250/12 OR AMS 4078

NOTE: GRAIN DIRECTION MUST RUN ALONG 3" WIDE 2PCS CUT AT 4 FT LONG

Line Total:

\$808.00

6	D6101-005P	7075-T7351 8.25X5.0X2.5	7/24/2017	20.00	\$36.20	\$724.00
			Yes	Each		
			7/24/2017			

AS PER DWG.D6101 REV.B

B163265

SIZE: 5.00" X 8.250" X 2.50" THICK

GRAIN DIRECTION ALONG 5.00"" LENGTH

MATERIAL: 7075-T7351 QQ-A-250/I2

TOLERANCE AS PER QUOTE +.030"/-.000"

Line Total:

\$724.00

Note:



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO36887

Purchase Order Date 6/29/2017

PO Print Date 6/29/2017

Page Number 4 of 5

Order From :  
METAUX CASTLE  
P.O. BOX 4090 STN A  
TORONTO, ONTARIO M5W 0E9  
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone		Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	Yours ppd	Currency	USD
Ship Acct:		FOB	Destination-Collect
7 D6102-013P	6061-T6 7.0X6.5X2.0	7/24/2017	\$31.65
		Yes	\$1,582.50
		7/24/2017	
		50.00	
		Each	

AS PER DWG D6102 REV. D  
B163266  
SIZE: 7.000" X 6.500" X 2.00" THICK  
GRAIN DIRECTION ALONG 6.500"  
MATERIAL 6061-T6/T6511 QQ-A-250/11  
TOLERANCE AS PER QUOTE +.030"/-.000

8 D6103-003P	Round Alum Billet	7/24/2017	\$60.40	\$604.00
		Yes		

AS PER DWG D6103 REV. B  
B163267  
MATERIAL: 7075-T7351 AS PER QQ-A-225/9  
SIZE: 3.500" X 12.500" LONG

SOP-7-18

Line Total: \$1,582.50

Recu 11x

SOP-7-6

Line Total: \$604.00

Note:



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

# PURCHASE ORDER

Purchase Order ID **PO36887**

Purchase Order Date 6/29/2017

PO Print Date 6/29/2017

Page Number 5 of 5

**Order From :**

METAUX CASTLE  
P.O. BOX 4090 STN A  
TORONTO, ONTARIO M5W 0E9  
CANADA

VU-MET002

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

Vendor Phone

Buyer Chantal Lavoie

Customer POID

10127-2607

Customer Tax # Net 30

Terms

USD

Currency

FOB Destination-Collect

**Ship To Contact**

**Ship To Phone**

Ship Via: Yours ppd

Ship Acct:

9	D6104-005P	17-4 SS Roundbar 4.00"Od	7/24/2017	10.00	\$54.20	\$542.00
			Yes	Each		

AS PER DWG D6104 REV. B

B163268

MATERIAL: 17-4 PH AS PER AMS 4643 OR AISI 630

SIZE: 4.00" X 5.10" LONG

10	71401-45	PROCUREMENT QUALITY CLAUSES	7/24/2017	1.00	Line Total: \$0.00	\$542.00
			No			

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

Line Total: \$0.00

PO Total: \$5,573.66

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dart aerospace.com](http://www.dart aerospace.com) for further explanation.

Change Nbr: 2

Change Date: 6/29/2017

## Chantal Lavoie

**From:** Desbiens, Marc <mdesbien@amcastle.com>  
**Sent:** Tuesday, June 27, 2017 4:42 PM  
**To:** Chantal Lavoie  
**Subject:** RE: quote

Hi Chantal,

price and delivery on material.

7075-t6 bar (plate) 1" x 2.5" x 12 ft \$ 30.42 FT 2-3 weeks  
7075-t6 bar (plate) 1.5" x 1.5" x 12 ft \$ 21.06 FT 2-3 weeks  
7075-t6-bar-(plate).2.250" x 2.750" x 12 ft Offer 2.50"thk \$ 45.85 FT 2-3 weeks  
7075-t6 bar (plate) 4" x 4" x 5 pcs cut at 32" \$ 254.00 piece (mid August)  
7075-t6 bar (plate) 5" x 0.375" x 24 ft \$ 18.10 FT 2-3 weeks  
7075-t6 bar (plate) 5" x 1" x 12 ft \$ 21.75 FT 2-3 weeks  
  
7075-t76 bar 3" x 4" x 2 pcs cut at 4 ft grain direction along 3"  
offer 7075-T73 \$ 404.00 piece 2-3 weeks

Thanks

Marc Desbiens  
Inside sales representative  
Castle Metals, Montreal, QC  
Direct line 514-795-8176  
1-800-806-6660 ext 52226  
Fax # 1-855-892-6370  
*Customized Supply Chain Solutions for Your Metal Needs*

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